

- DECIRIC SERVICE SHALL BE OF THE VOLTAGE INDICATED OR DESIGNATED BY THE ENGINEER, AND SERVICE DROP CABLE SHALL BE COMPATILE WITH THE SERVICE ACCORDINGLY. SOME INSTALLATIONS MAY CALL FOR SERVICE ENTRANCE EQUIPMENT SULTABLE FOR 3-WIRE SERVICE EVEN THOUGH INITIALLY WIRED FOR 2-WIRE SERVICE.
- 2. THE POLE-MOUNTED ELECTRIC SERVICE BOX DETAIL DEPICTS
 THE BASIC CONSTRUCTION OF THE EQUIPMENT, SLIGHT
 MODIFICATIONS APPLY FOR DIFFERING SERVICES AND
 APPLICATIONS AS FOLLOWS:
 - TYPE A FULLY EQUIPPED FOR 240/120V. 3W SERVICE, COMPLETE WITH LIGHTING MAIN BREAKER
 - TYPE 41 FULLY EOUIPPED FOR 24G/12GV. 3W SERVICE. BLANK COVER IN LIEU OF LICHTING MAIN BREAKER
 - TYPE B COLIPPED FOR 120V. SERVICE, COMPLETE WITH 1P, 60A, TRAFFIC SIGNALS MAIN BREAKER

 - TYPE BI EQUIPPED FOR 120V, SERVICE, COMPLETE WITH IP. 40A, TRAFFIC SURVEILLANCE MAIN BREAKER
- 3. THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LISTED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT.
- 4. THE ELECTRIC SERVICE EQUIPMENT ENCLOSURE SHALL BE NEMA 4X STAINLESS STEEL, NOMINALLY 12"W X 16"H X 6"D, WITH A PIAND-HINGED DOOR, STEEL BACK PANEL, FAST-ACTING STAINLESS STEEL ENCLOSURE CLAMPS, PAOLOCK PROYISIONS AND DOOR STOP. MORFMAN CATALOO NO. A-IGHIZORSSELP/A-16 P12/A-DSTOPR/C-PMKLZ, OR APROVED EQUAL.
- 5. CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 25,000 SYMMETRICAL AMPERES AT 240 VOLTS. THEY SHALL BE LOCKAGLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/ TAG-OUT REQUIREMENTS. MANDLES SHALL BE TRIP FREE
- 6. THE SURCE PROTECTOR SHALL BE SUITABLE FOR 240/120 YOLT SINGLE PHASE GORZ AC ELECTRICAL SERVICE, MITH A SURCE EMERGY CAPABILITY OF 2160 JOULES OR BETTER AT 8/20 MICRO-SECONDS, RATED -40 TO 60 DECREES C, WITH LED OPERATING INDICATORS, AND SHALL BE ILL LISTED PER UL. 1449, CUTLER-HAMMER CMOV230L065XST OR APPROVED EQUAL.
- 7. BUS BARS, CONNECTORS, AND LUGS SHALL BE COPPER,
 INSULATED AND ISOLATED, AND CONFIGURED TO PREVENT
 SHORTED COMDITIONS FROM ITEMPRICATIONS, ETC.
 THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN
 INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO
 CONNECTIONS, OR THE ASSEMBLY SHALL BE A MAMUFACTURED
 SPECIALTY PANELBOARD, CUTLER-MAMMER PRIZA OR APPROVED
 EQUAL.
- 8. THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS NOLCATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN. THE HEADS OF NEUTRAL SCREWS SHALL BE PAINTED WHITE. THE SERVICE NEUTRAL AND SERVICE GROUNDING ELECTRODE COMDUCTOR SHALL BE TERMINATED ADJACENT TO EACH OTHER AT THE DIVIDE BETWEEN THE SECTIONS AND WIRING SHALL BE TERMINATED ONLY UPON THE APPROPRIATE SECTION.
- THE WIRING TERMINALS, INCLUDING THE GROUND/MEUTRAL BAR SHALL BE ARRANGED TO PROVIDE ADEQUATE ROOM FOR PERFORMING FIELD TERMINATIONS.
- 10. A PLASTIC LAMINATED LAYOUT AND CIRCUIT DIAGRAM SHALL BE MECHANICALLY SECURED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR.
- II. A 2-COLOR ENGRAYED PLASTIC NAMEPLATE, ATTACHED WITH SCREWS, AND ENGRAYED AS INDICATED, SHALL BE PROVIDED FOR EACH MAIN
- 12. LUGS AND CONNECTORS SHALL BE RATED FOR 75°C CONDUCTOR.
- THE EXACT MOUNTING HEIGHT OF THE BOX SHALL BE FIELD DETERMINED TO AVOID DESTRUCTIONS AND PUBLIC ACCESS. TYPICAL MEIGHT SHALL BE APPROXIMATELY TO FEET ABOVE GRADE.

| - | FILE NAME + | USER NAME = gaglienobt | DESIGNED - | REVISED - R. TOMSONS 08-13-04 | |
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| | We\distatd\22x34\bo23Ø.ogn | | DRAWN - | REVISED - | |
| | | PLOT SCALE = 50.0000 1/ INL | CHECKED - | REVISED - | |
| j | | PLOT DATE = 1/4/2008 | DATE - | REVISED - | |
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

| COMBINATI | ON LIGHTING | & TRAFFIC POLE | |
|---------------|-------------|----------------|---------|
| | | ICE BOX DETAIL | |
| SHEET NO. 1 C | F I SMEETS | STA. | TO STA. |

SCALE: NONE

COUNTY TOTAL SMEET NO. DUPAGE 73 50 F.A. RTE SECTION 3002 00-00083-00-PV CONTRACT NO. 63579 BE-230